

To satisfy the requirements of 35 U.S.C. §112, ¶1, an applicant needs to disclose the invention sufficiently complete to enable "any person skilled in the art to which it pertains, or with which it is most nearly connected" (Section 112, 1, emphasis added, "it" being the disclosure of the invention) to make and use the invention without undue experimentation. The need for routine experimentation is, in this context, not fatal. Enablement is the criterion, and every detail need not be set forth in the written specification if the skill in the art is such that the disclosure enables one to make the invention¹). It is well settled that there is a strong presumption that an adequate written description of the claimed invention is present in the specification as filed²), and that an examiner has the initial burden, after a thorough reading and evaluation of the application and the pertinent art, of presenting by a preponderance of evidence why any person skilled in the pertinent art would not be enabled to make and/or use the claimed invention³).

The state of the pertinent art as well as the level of ordinary skill in the pertinent art are factors which have to be considered in determining whether the enablement requirement of Section 112, ¶1, is met by the disclosure, and a meaningful evaluation of those factors requires at least a rudimentary understanding of the principles applied in the pertinent art. In the fungicidal art in general, and particularly in the field which deals with effects that occur when two fungicides are applied in combination, any person having ordinary skill has not only mathematical skills but has also a full understanding of

- the significance of an expression such as "degree of action",
- the manner in which an expected degree of action of a combination of ingredients can be determined by a calculation based on test results obtained when the ingredients of the combination are applied separately, and
- the significance of differences between an observed degree of action of a combination and an expected degree of action which is calculated on the basis of Colby's formula.

The Examiner has not shown, by a preponderance of evidence, why applicants' disclosure is insufficient to enable a person skilled in

1) ie. Martin v. Johnson, 454 F.2d 746, 172 USPQ 391 (CCPA 1972)

2) ie. In re Wertheim, 541 F.2d 257, 262, 191 USPQ 90, 96 (CCPA 1976)

3) ie. In re Marzocchi, 439 F.2d 220, 224, 169 USPQ 367, 370 (CCPA 1971), In re Wertheim, 541 F.2d 257, 263, 191 USPQ 90, 97 (CCPA 1976)

the pertinent art to make and/or use the claimed invention. The Examiner argues that the data provided in Dr. Ammermann's declaration show "less than additive effects" (*emphasis original*). Any person skilled in the art is fully aware that a degree of action of 100 means that **no** fungal infection is present⁴⁾, as opposed to a degree of action of 0 which means that the fungal infection is of the same level as an untreated control experiment. The degree of action can, under no circumstances, exceed 100 because it is technically impossible to reach a result where the fungal infection is below the level of no fungal infection. Any person having skill in the pertinent art therefore recognizes that a degree of action of 120 cannot exist, even if a compound exhibiting a degree of action of 55 is combined with a compound which exhibits a degree of action of 65. The Examiner's position that **no fungal infection** is "less than" what can be expected is, therefore, technically unsound.

It is equally technically unsound to assert that one can arrive at an expected value for the degree of action of a combination of ingredients by a mere addition of the degrees of action which are observed when the ingredients are applied separately. Applicants already explained at length the significance of the degree of action, and have also explained why the expected degree of action has to be below 100 when a compound exhibiting a degree of action of 55 when applied alone and a compound exhibiting a degree of action of 65 when applied alone are applied in combination⁵⁾. Such an explanation should, however, have been superfluous since any person having skill in the pertinent art is fully aware why an expected degree of action cannot be based on a mere addition as done by the Examiner, but has to be calculated, for example in accordance with Colby's formula.

Applicants herewith enclose a printout of the result of a search conducted in the U.S. PTO's database, searching patents from 1976 to present using as search criteria reference in the specification to "synergistic" and to either one of "Colby" or "Colby's". The search yielded 467 U.S. patents which corroborates that it is well established in the pertinent art to rely on the calculation developed by Colby when it comes to determining whether a combination of two plant protection agents exhibits synergistic effects.

4) Note page 15, indicated lines 31 to 44, in particular lines 43 and 44, of the application.

5) Note pages 2 to 4 of applicants' reply dated June 26, 2002 (*date of the certificate of Mailing*), marked as "Paper No. 03".

The Examiner has, so far, not presented arguments why applicants' disclosure is insufficient to enable a person skilled in the pertinent art. Moreover, the Examiner has not presented arguments or reasoning which reaches a level where a preponderance of evidence supports the Examiner's conclusion, particularly since the Examiner's position is based on theories and calculations which are technically unsound and which would, therefore, not be applied by a person of ordinary skill in the pertinent art. In light of the foregoing as well as the explanations and arguments submitted in the earlier proceedings, it is respectfully requested that the rejection under the provisions of Section 112, ¶1, be withdrawn.

Claims 12 to 23 stand rejected under Section 103(a) as being unpatentable in in light of the teaching of *Schwalge et al.* (US 5,972,941) and *Kasahara et al.* (US 5,847,005). In this context, the Examiner takes the position that applicants have not shown the synergistic properties of the claimed combinations. As addressed in applicants' previous replies and in the foregoing, the Examiner's interpretation of applicants' data is technically not sound and fails to appreciate the information which is conveyed by applicants' data to a person of ordinary skill in the pertinent technology. The Examiner has not established a prima facie case of obviousness because the Examiner has not shown that the prior art teaches or suggests each and every limitation which characterizes applicants' invention.

Applicants explicitly require in the claims that the constituents (a) and (b) of the mixture are present in synergistically effective amounts. Even if the Examiner takes the position that applicants' disclosure lacks adequate enablement for the explicit requirement, the requirement cannot be disregarded in a proper determination of obviousness pursuant to Section 103(a)⁶). Also, the way in which the Examiner presently chooses to consider applicants' explicit requirement for synergistically effective amounts in the context of the determination under Section 112, ¶1, while -at the same time- failing to consider the explicit requirement in the context of the determination under Section 103(a) is deemed to be capricious and arbitrary. It is therefore respectfully requested that the rejection under the provisions of Section 103(a) be withdrawn.

6). *In re Royka*, 490 F.2d 981, 180 USPQ 580 (CCPA 1974); *In re Wilson*, 424 F.2d 1382, 1385, 165 USPQ 494, 496 (CCPA 1970); note also *Ex parte Grasselli*, 231 USPQ 393 (POBA 1983)

REQUEST FOR EXTENSION OF TIME:

It is respectfully requested that a two month extension of time be granted in this case. A check for the \$420.00 fee is attached.

Please charge any shortage in fees due in connection with the filing of this paper, including Extension of Time fees, to Deposit Account No. 11.0345. Please credit any excess fees to such deposit account.

Respectfully submitted,

KEIL & WEINKAUF



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Encl.: Printout of Patent Database Search Results: "SPEC/(synergistic AND
(Colby OR Colby's))"

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SPEC/(synergistic AND (Colby OR Colbys)): 467 patents.

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Refine Search

SPEC/(synergistic and (Colby or Colbys))

| PAT. NO. | Title |
|--------------|--|
| 1 6,656,944 | T Fungicidal mixtures |
| 2 6,653,343 | T Active substance combinations comprising insecticidal and acaricidal properties |
| 3 6,645,911 | T Synergistic herbicidal mixtures |
| 4 6,638,961 | T Fungicidal composition comprising a 2-imidazolin-5-one |
| 5 6,624,183 | T Fungicidal combinations of active substances |
| 6 6,620,822 | T Fungicidal combinations of active substance |
| 7 6,599,514 | T Antifungal composition |
| 8 6,576,661 | T Active ingredient combination having insecticidal and acaricidal characteristics |
| 9 6,576,593 | T Synergistic herbicidal compositions comprising herbicides from the benzoylcyclohexanedione group for use in maize crops |
| 10 6,569,875 | T Fungicide mixtures based on pyridin carboxamides and benzimidazoles or the precursors thereof |
| 11 6,559,136 | T Fungicidal active substance combinations |
| 12 6,552,039 | T Fungicidal combinations comprising a 4-phenoxyquinoline |
| 13 6,541,500 | T Fungicide mixture |
| 14 6,534,444 | T Herbicidal mixtures having a synergistic effect |
| 15 6,528,536 | T Fungicidal mixtures |
| 16 6,524,603 | T Process and composition for the antiparasitic treatment of the surroundings of animals |
| 17 6,521,628 | T Fungicidal mixtures |
| 18 6,521,568 | T Plant disease controlling compositions and plant disease controlling method |

- 19 [6,518,275](#) **T** [Fungicidal mixtures](#)
- 20 [6,515,018](#) **T** [Synergistic compositions for lycopene and Vitamin E for the prevention of LDL oxidation](#)
- 21 [6,515,000](#) **T** [Fungicidal mixtures based on amide compounds](#)
- 22 [6,514,959](#) **T** [Microbicides](#)
- 23 [6,514,954](#) **T** [Pesticidal compositions](#)
- 24 [6,511,941](#) **T** [Herbicidal synergistic composition, and method of controlling weeds](#)
- 25 [6,509,343](#) **T** [Fungicidal active substance combinations](#)
- 26 [6,506,556](#) **T** [Synergistic insect control](#)
- 27 [6,503,936](#) **T** [Fungicidal mixtures](#)
- 28 [6,503,932](#) **T** [Fungicidal mixtures based on amide compounds](#)
- 29 [6,500,836](#) **T** [Fungicidal active compound combinations](#)
- 30 [6,498,194](#) **T** [Fungicidal mixtures](#)
- 31 [6,495,577](#) **T** [Pesticidal composition](#)
- 32 [6,495,575](#) **T** [Fungicidal active compound combinations](#)
- 33 [6,492,301](#) **T** [Herbicidal compositions with substituted phenylsulfonylureas for controlling weeds in rice](#)
- 34 [6,489,360](#) **T** [Fungicidal mixtures](#)
- 35 [6,489,348](#) **T** [Fungicidal mixtures based on amide compounds and pyridine derivatives](#)
- 36 [6,486,096](#) **T** [Herbicidal compositions with acylated aminophenylsulfonylureas](#)
- 37 [6,482,771](#) **T** [Synergistic herbicidal methods and compositions](#)
- 38 [6,479,511](#) **T** [Fungicidal combinations comprising a 4-phenoxyquinoline](#)
- 39 [6,472,429](#) **T** [Fungicidal compositions](#)
- 40 [6,472,428](#) **T** [Fungicidal compositions](#)
- 41 [6,462,052](#) **T** [Synergistic fungicide and/or bactericide composition](#)
- 42 [6,458,746](#) **T** [Plant growth regulating formulations](#)
- 43 [6,455,563](#) **T** [Microbicides](#)
- 44 [6,451,855](#) **T** [Fungicidal combinations comprising glyoxalic acid methyl ester-O-methyloxime derivatives](#)
- 45 [6,451,733](#) **T** [Synergistic herbicidal methods and compositions](#)
- 46 [6,448,291](#) **T** [Fungicidal active compound combinations](#)
- 47 [6,444,693](#) **T** [Fungicidal active substance combinations](#)
- 48 [6,444,692](#) **T** [Fungicidal mixtures](#)
- 49 [6,444,613](#) **T** [Defoliant](#)
- 50 [6,441,031](#) **T** [Plant protection agents](#)

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Refine Search

SPEC/(synergistic and (Colby or Colbys))

| PAT. NO. | Title |
|--------------|---|
| 51 6,441,028 | T Microbicidal compositions |
| 52 6,436,979 | T Fungicidal mixtures |
| 53 6,436,976 | T Agents for combating plant pests |
| 54 6,436,968 | T Agents for controlling plant pests |
| 55 6,436,934 | T Fungicide mixtures based on amide compounds and morpholine or piperidine derivatives |
| 56 6,436,874 | T Synergistic herbicidal agents based on leaf herbicides containing phosphorus, imidazolinones and hormone weed killers |
| 57 6,432,965 | T Fungicidal combinations comprising thieno(2,3-d)pyrimidin-4-one |
| 58 6,423,733 | T Fungicidal mixtures |
| 59 6,417,216 | T Fungicidal composition comprising a 2-imidazolin-5-one |
| 60 6,413,973 | T Fungicidal combinations comprising quinazolinone |
| 61 6,413,907 | T Herbicidal composition |
| 62 6,410,572 | T Fungicidal mixtures based on amide compounds and tetrachloroisophthalonitrile |
| 63 6,407,126 | T Fungicide mixtures based on amide compounds and pyridine derivatives |
| 64 6,403,532 | T Herbicidal synergistic composition, and method of controlling weeds |
| 65 6,403,531 | T Herbicidal synergistic composition and method of weed control |
| 66 6,395,761 | T Fungicidal combinations comprising glyoxalic acid methyl ester-O-methyloxime |

derivatives

- 67 [6,384,067](#) **T** [Fungicidal compositions comprising a 2-imidazolin-5-one](#)
 - 68 [6,375,965](#) **T** [Composition for controlling harmful bio-organisms and method for controlling harmful bio-organisms using the same](#)
 - 69 [6,372,748](#) **T** [Fungicide mixtures based on pyridine amides and fenarimol](#)
 - 70 [6,372,737](#) **T** [Fungicidal active substance combinations](#)
 - 71 [6,369,105](#) **T** [Microbicides](#)
 - 72 [6,369,090](#) **T** [Fungicidal mixture](#)
 - 73 [6,365,614](#) **T** [Fungicides mixtures](#)
 - 74 [6,365,613](#) **T** [Fungicidal mixtures](#)
 - 75 [6,365,608](#) **T** [Fungicide mixtures based on pyridine carboxamides](#)
 - 76 [6,365,550](#) **T** [Flufenacet-based herbicidal compositions](#)
 - 77 [6,365,195](#) **T** [Fungicidal active compound combinations](#)
 - 78 [6,362,133](#) **T** [Synergistically active herbicidal mixtures](#)
 - 79 [6,358,988](#) **T** [Process and composition for the antiparasitic treatment of the surroundings of animals](#)
 - 80 [6,358,938](#) **T** [Synergistic fungicidal composition](#)
 - 81 [6,353,020](#) **T** [Fungicidal compositions containing N-acetonylbenzamides](#)
 - 82 [6,352,960](#) **T** [Controlling agent for agricultural or horticultural bacterial disease](#)
 - 83 [6,350,765](#) **T** [Fungicidal mixtures based on amide compounds and azoles](#)
 - 84 [6,346,538](#) **T** [Fungicide mixtures based on amide compounds and pyridine derivatives](#)
 - 85 [6,346,535](#) **T** [Fungicidal mixtures](#)
 - 86 [6,344,472](#) **T** [Fungicidal composition comprising a 2-imidazolin-5-one](#)
 - 87 [6,344,469](#) **T** [Fungicide mixtures](#)
 - 88 [6,335,355](#) **T** [Crop protection products](#)
 - 89 [6,329,424](#) **T** [Microbicidal compositions](#)
 - 90 [6,319,936](#) **T** [Fungicidal compositions containing N-acetonylbenzamides](#)
 - 91 [6,316,480](#) **T** [Fungicidal mixtures](#)
 - 92 [6,316,452](#) **T** [Fungicidal mixture](#)
 - 93 [6,316,447](#) **T** [Pesticidal composition](#)
 - 94 [6,316,446](#) **T** [Fungicidal mixture](#)
 - 95 [6,316,387](#) **T** [Synergistic active compound combinations for controlling harmful plants in crops of useful plants](#)
 - 96 [6,316,386](#) **T** [Selective herbicides based on arylsulphonylaminocarbonyltriazolinones](#)
 - 97 [6,306,888](#) **T** [Microbicides](#)
 - 98 [6,306,850](#) **T** [Fungicide active substance combinations](#)
 - 99 [6,303,599](#) **T** [Fungicidal mixtures](#)
 - 100 [6,303,598](#) **T** [Fungicidal active substance combinations](#)
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SPEC/(synergistic and (Colby or Colbys))

| PAT. NO. | Title |
|---------------|--|
| 101 6,297,236 | T Fungicide active substance combinations |
| 102 6,294,543 | T Plant protection agents |
| 103 6,291,497 | T Fungicidal mixtures |
| 104 6,277,856 | T Fungicidal mixtures |
| 105 6,277,787 | T Synergistic herbicidal methods and compositions |
| 106 6,274,586 | T Combatting parasitic fungi with a combination of an active agent inhibiting respiration in the cytochrome complex III and of fenazaquine |
| 107 6,274,569 | T Pesticidal compositions |
| 108 6,274,535 | T Defoliant |
| 109 6,271,438 | T Transgenic pathogen-resistant plant |
| 110 6,270,810 | T Fungicidal compositions containing N-acetonylbenzamides |
| 111 6,268,371 | T Fungicidal mixtures |
| 112 6,267,991 | T Fungicidal compositions containing N-acetonylbenzamides |
| 113 6,264,993 | T Fungicidal compositions containing N-acetonylbenzamides |
| 114 6,262,091 | T Process and agents for controlling harmful fungi |
| 115 6,258,801 | T Fungicidal mixtures |
| 116 6,248,762 | T Microbicides |
| 117 6,248,748 | T Crop protection products |

- 118 [6,245,798](#) **T** [Fungicidal mixtures](#)
 - 119 [6,245,792](#) **T** [Fungicidal mixture](#)
 - 120 [6,245,772](#) **T** [Fungicidal active compound combinations](#)
 - 121 [6,245,771](#) **T** [Combating parasitic fungi with a combination of an active agent inhibiting respiration in the cytochrome complex III and of fenazaquine](#)
 - 122 [6,242,440](#) **T** [Synergistic compositions comprising an oxathiazine and a benzothiophene-2-carboxamide-S,S-dioxide](#)
 - 123 [6,239,158](#) **T** [Fungicidal mixtures](#)
 - 124 [6,239,070](#) **T** [Herbicidal mixtures](#)
 - 125 [6,235,744](#) **T** [Fungicidal active compound combinations](#)
 - 126 [6,235,684](#) **T** [Fungicidal combinations comprising phenylacrylic acid derivatives](#)
 - 127 [6,225,319](#) **T** [Pesticidal compositions](#)
 - 128 [6,221,809](#) **T** [Herbicidal compositions comprising N-\[\(4,6-dimethoxypyridin-2-yl\)aminocarbonyl\]-5-methylsulphonamidomethyl-2-alkoxycarbonylbenzene sulphonamides](#)
 - 129 [6,214,770](#) **T** [Herbicidal compositions](#)
 - 130 [6,214,768](#) **T** [Synergistic herbicidal methods and compositions](#)
 - 131 [6,211,236](#) **T** [Fungicide mixtures](#)
 - 132 [6,207,691](#) **T** [Fungicidal active compound combinations](#)
 - 133 [6,194,417](#) **T** [Fungicide mixtures](#)
 - 134 [6,191,128](#) **T** [Fungicidal active substance combinations](#)
 - 135 [6,180,638](#) **T** [Fungicide mixture](#)
 - 136 [6,180,563](#) **T** [Herbicidal synergistic composition and method of weed control](#)
 - 137 [6,177,446](#) **T** [Fungicidal mixture](#)
 - 138 [6,174,838](#) **T** [Herbicides based on 4-bromo-1-methyl-5-trifluoromethyl-3-\(2-fluoro-4-chloro-5-isoproxycarbonyl phenyl\)pyrazole](#)
 - 139 [6,172,094](#) **T** [Fungicide mixtures](#)
 - 140 [6,172,083](#) **T** [Fungicidal mixture](#)
 - 141 [6,172,063](#) **T** [Fungicidal mixtures](#)
 - 142 [6,169,056](#) **T** [Harmful fungi control with an active substance inhibiting respiration by inhibiting the cytochrome complex III, combined with an amide](#)
 - 143 [6,168,929](#) **T** [Method of identifying agents that disrupt the interaction of SV40 T antigen with Dnak homologues](#)
 - 144 [6,166,058](#) **T** [Fungicidal mixtures](#)
 - 145 [6,159,992](#) **T** [Fungicidal mixtures](#)
 - 146 [6,159,899](#) **T** [Herbicidal composition and method of weed control](#)
 - 147 [6,156,778](#) **T** [Agents for controlling harmful fungi](#)
 - 148 [6,156,760](#) **T** [Fungicide mixtures](#)
 - 149 [6,147,091](#) **T** [Arthropod repellent](#)
 - 150 [6,143,745](#) **T** [Process and agent for controlling harmful fungi](#)
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SPEC/(synergistic and (Colby or Colbys))

PAT. NO. Title

- 151 [6,136,840](#) **T** [Fungicidal mixtures](#)
 - 152 [6,136,816](#) **T** [Method for protecting pome plants against venturia and podosphearea spp. infestation](#)
 - 153 [6,136,802](#) **T** [Fungicidal mixtures](#)
 - 154 [6,133,298](#) **T** [Fungicidal mixtures](#)
 - 155 [6,130,236](#) **T** [Pesticidal compositions](#)
 - 156 [6,130,224](#) **T** [Fungicidal agents and method](#)
 - 157 [6,124,336](#) **T** [Fungicide mixtures](#)
 - 158 [6,124,335](#) **T** [Fungicidal mixtures](#)
 - 159 [6,117,892](#) **T** [Crop protection products](#)
 - 160 [6,114,378](#) **T** [Fungicide mixtures](#)
 - 161 [6,114,283](#) **T** [Herbicidal mixtures](#)
 - 162 [6,107,340](#) **T** [Fungicidal compositions containing N-acetonylbenzamides](#)
 - 163 [6,103,664](#) **T** [Synergistic herbicidal mixtures containing cyclohexenone oxime ethers](#)
 - 164 [6,100,261](#) **T** [Fungicidal mixtures](#)
 - 165 [6,096,769](#) **T** [Fungicidal co-formulation](#)
 - 166 [6,090,835](#) **T** [Fungicidal mixtures](#)
 - 167 [6,090,806](#) **T** [Fungicidal mixtures](#)
 - 168 [6,090,750](#) **T** [Herbicidal combinations](#)
- T**

- 169 [6,087,388](#) [Compositions and methods of combatting fungi](#)
 - 170 [6,083,970](#) **T** [Fungicidal mixtures](#)
 - 171 [6,083,946](#) **T** [Fungicide mixtures](#)
 - 172 [6,080,749](#) **T** [Fungicidal mixture](#)
 - 173 [6,080,401](#) **T** [Herbal and pharmaceutical drugs enhanced with probiotics](#)
 - 174 [6,075,047](#) **T** [Fungicidal compositions containing N-Acetonylbenzamides](#)
 - 175 [6,075,042](#) **T** [Fungicidal composition comprising a 2-imidazolin-5-one](#)
 - 176 [6,075,030](#) **T** [Fungicidal mixture](#)
 - 177 [6,071,940](#) **T** [Fungicidal active compound combinations](#)
 - 178 [6,069,171](#) **T** [Fungicidal compositions containing N-acetonylbenzamides](#)
 - 179 [6,069,115](#) **T** [Method of controlling weeds in transgenic crops](#)
 - 180 [6,066,596](#) **T** [Herbicidal synergistic composition, and method of controlling weeds](#)
 - 181 [6,060,490](#) **T** [Fungicidal compositions containing N-acetonylbenzamides](#)
 - 182 [6,060,432](#) **T** [Herbicidal sulfonamides](#)
 - 183 [6,057,365](#) **T** [Fungicidal compositions containing N-acetonylbenzamides](#)
 - 184 [6,057,363](#) **T** [Fungicidal active compound combinations](#)
 - 185 [6,057,356](#) **T** [Fungicidal compositions containing N-acetonylbenzamides](#)
 - 186 [6,057,355](#) **T** [Pesticidal combination](#)
 - 187 [6,057,331](#) **T** [Synergistic fungicidal composition comprising a compound analogous to strobilurin](#)
 - 188 [6,054,410](#) **T** [Herbicidal mixtures having a synergistic effect](#)
 - 189 [6,046,134](#) **T** [Herbicidal mixtures](#)
 - 190 [6,046,133](#) **T** [Herbicidal compositions](#)
 - 191 [6,040,271](#) **T** [Selective herbicides for the cultivation of sugar cane](#)
 - 192 [6,034,034](#) **T** [Process and composition for controlling weeds](#)
 - 193 [6,031,153](#) **T** [Method for protecting plants](#)
 - 194 [6,030,925](#) **T** [Herbicidal composition](#)
 - 195 [6,028,186](#) **T** [High affinity nucleic acid ligands of cytokines](#)
 - 196 [6,028,093](#) **T** [Fungicide compositions](#)
 - 197 [6,028,031](#) **T** [Herbicidal compositions](#)
 - 198 [6,017,851](#) **T** [Synergistic composition and process for selective weed control](#)
 - 199 [6,013,605](#) **T** [Synergistic herbicidal mixtures](#)
 - 200 [6,013,604](#) **T** [Synergistic herbicidal combination](#)
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Refine Search

SPEC/(synergistic and (Colby or Colbys))

| PAT. NO. | Title |
|-------------------------------|---|
| 201 6,011,065 | T Fungicidal compositions containing N-acetylbenzamides |
| 202 6,011,064 | T Microbicidal compositions |
| 203 6,004,947 | T Fungicidal compositions containing N-acetylbenzamides |
| 204 5,998,455 | T Crop protection compositions |
| 205 5,998,391 | T Microbicidal composition |
| 206 5,994,382 | T Fungicidal mixtures |
| 207 5,990,048 | T Selective herbicides based on metribuzin and substituted imidazo[1,2-a]pyridin-3-yl-sulfonyl compounds |
| 208 5,990,047 | T Herbicidal composition comprising 4-iodo-2-[3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)ureidosulfonyl]benzoic esters |
| 209 5,990,045 | T Herbicidal mixtures |
| 210 5,990,044 | T Selective herbicides based on aryl uracils |
| 211 5,985,797 | T Herbicidal compositions based on N-isopropyl-N-(4-fluorophenyl) (5-1,3,4-thiadiazol-2-yloxy)acetamide |
| 212 5,985,796 | T Herbicidal mixtures |
| 213 5,981,582 | T Compositions and methods of combatting fungi |
| 214 5,981,561 | T Fungicide mixtures |
| 215 5,977,026 | T Herbicidal mixtures |

- 216 [5,973,001](#) **T** [Fungicidal mixtures of an oxime ether carboxylic acid amide with cymoxanil](#)
 - 217 [5,972,941](#) **T** [Fungicidal mixtures of an oxime ether carboxylic acid amide with a morpholine or piperidine derivative](#)
 - 218 [5,972,599](#) **T** [High affinity nucleic acid ligands of cytokines](#)
 - 219 [5,968,941](#) **T** [Fungicidal mixtures](#)
 - 220 [5,968,873](#) **T** [Selective herbicides based on 4-amino-5-\(1-methyl-ethyl\)-2-\(1,1-dimethylethylaminocarbonyl\)-2,4-dihydro-3H-1,2,4-triazol-3-one](#)
 - 221 [5,965,599](#) **T** [Fungicidal mixtures of an oxime ether carboxylic acid amide with an N-trichloromethyl thiophthalimide](#)
 - 222 [5,962,518](#) **T** [Fungicidal active compound combinations](#)
 - 223 [5,958,922](#) **T** [Insecticidal mixtures](#)
 - 224 [5,955,484](#) **T** [Crop protection products](#)
 - 225 [5,953,983](#) **T** [Food processing device](#)
 - 226 [5,948,805](#) **T** [Fungicidal mixtures](#)
 - 227 [5,945,437](#) **T** [Crop protection products](#)
 - 228 [5,945,379](#) **T** [Herbicides based on heteroaryloxy-acetamides for use in rice cultivation](#)
 - 229 [5,939,454](#) **T** [Fungicidal mixtures of an oxime ether carboxylic acid amide with a dithiocarbamate](#)
 - 230 [5,929,102](#) **T** [Synergistic combination of microbicides to combat fungi on plants](#)
 - 231 [5,928,997](#) **T** [Synergistic herbicidal agents comprising phenoxysulfonylurea herbicides](#)
 - 232 [5,928,995](#) **T** [Herbicidal mixtures](#)
 - 233 [5,928,991](#) **T** [Selective herbicides based on 1-\(2-chloro-phenyl\)-4-\(N-cyclohexyl-N-ethyl-aminocarbonyl\)-1,4-dihydro-5H-tetrazol-5-one and Propanil](#)
 - 234 [5,922,762](#) **T** [Fungicidal active compound combinations](#)
 - 235 [5,921,677](#) **T** [Food processing agitator device](#)
 - 236 [5,914,143](#) **T** [Long-term preservation of apple slices and the like](#)
 - 237 [5,912,249](#) **T** [Fungicidal mixtures](#)
 - 238 [5,912,206](#) **T** [Herbicidal compositions](#)
 - 239 [5,910,500](#) **T** [Fungicidal mixtures of an oximether carboxylic acid amide with anilinopyrimidines](#)
 - 240 [5,906,986](#) **T** [Fungicidal composition comprising a 2-imidazolin-5-one](#)
 - 241 [5,906,854](#) **T** [Method for processing cheese curds](#)
 - 242 [5,902,828](#) **T** [Fungicidal mixtures](#)
 - 243 [5,891,908](#) **T** [Fungicidal mixtures](#)
 - 244 [5,877,201](#) **T** [Fungicidal mixtures](#)
 - 245 [5,866,599](#) **T** [Fungicidal mixtures](#)
 - 246 [5,863,932](#) **T** [Microbicidal composition](#)
 - 247 [5,858,920](#) **T** [Selective herbicides based on heteroaryloxy-acetamides E.G., fluthiamide](#)
 - 248 [5,855,671](#) **T** [Salting Device](#)
 - 249 [5,849,665](#) **T** [Synergistic composition and process for selective weed control](#)
 - 250 [5,846,571](#) **T** [Compositions and methods of combatting fungi](#)
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SPEC/(synergistic and (Colby or Colbys))

| PAT. NO. | Title |
|-------------------------------|---|
| 251 5,843,982 | T Fungicidal compositions comprising metalaxyl and fludioxonil |
| 252 5,840,730 | T Fungicidal compositions and method of controlling plant fungi |
| 253 5,837,652 | T Herbicidal compositions |
| 254 5,827,861 | T Fungicidal mixtures |
| 255 5,811,373 | T Selective herbicides based on carbamoyltriazolinones and heteroaryloxyacetamides |
| 256 5,804,591 | T Synergistic compositions containing metconazole and another triazole |
| 257 5,804,184 | T Transgenic pathogen-resistant organism |
| 258 5,798,384 | T Microbicidal composition |
| 259 5,798,317 | T Herbicidal mixtures comprising anilofos and other herbicides |
| 260 5,795,846 | T Herbicidal compositions |
| 261 5,780,469 | T Crop protection products |
| 262 5,776,976 | T Fungicidal active compound combinations |
| 263 5,759,955 | T Herbicidal agents based on heteroaryloxyacetamides |
| 264 5,753,642 | T Dihydropyridazinones, pyridazinones and related compounds as fungicides |
| 265 5,741,793 | T Compositions having synergistic fungitoxic effects |
| 266 5,741,756 | T Synergistic herbicidal composition comprising triketones and chloroacetanilides, and method of use thereof |
| 267 5,736,486 | T Herbicidal mixture of anilofos and propanil |

- 268 [5,728,715](#) **T** [Dihydropyridazinones, pyridazinones and related compounds as fungicides](#)
- 269 [5,728,698](#) **T** [Dihydropyridazinones, pyridazinones and related compounds as fungicides](#)
- 270 [5,728,694](#) **T** [Dihydropyridazinones, pyridazinones and related compounds as fungicides](#)
- 271 [5,726,176](#) **T** [Dihydropyridazinones, pyridazinones and related compounds as fungicides](#)
- 272 [5,726,162](#) **T** [Dihydropyridazinones, pyridazinones and related compounds as fungicides](#)
- 273 [5,714,507](#) **T** [Synergistic compositions containing metconazole and another triazole](#)
- 274 [H1,711](#) **T** [Herbicidal mixtures](#)
- 275 [5,704,280](#) **T** [Food processing device](#)
- 276 [5,703,014](#) **T** [Process and composition for controlling weeds](#)
- 277 [5,703,013](#) **T** [Process and composition for controlling weeds](#)
- 278 [5,703,012](#) **T** [Process and composition for controlling weeds](#)
- 279 [5,703,011](#) **T** [Process and composition for controlling weeds](#)
- 280 [5,700,759](#) **T** [Process and composition for controlling weeds comprising a C.sub.7 -C.sub.2 0](#)
- 281 [5,689,045](#) **T** [Transgenic pathogen-resistant plant](#)
- 282 [5,683,962](#) **T** [Process and composition for controlling weeds](#)
- 283 [5,683,961](#) **T** [Process and composition for controlling weeds](#)
- 284 [5,683,959](#) **T** [Process and composition for controlling weeds](#)
- 285 [5,681,792](#) **T** [Process and composition for controlling weeds](#)
- 286 [5,674,807](#) **T** [Herbicide mixtures](#)
- 287 [5,672,619](#) **T** [Fungicidal active compound combinations](#)
- 288 [5,668,163](#) **T** [Fungicidal compositions](#)
- 289 [5,663,176](#) **T** [Microbicides](#)
- 290 [5,650,423](#) **T** [Fungicidal active compound combinations](#)
- 291 [5,650,373](#) **T** [Herbicidal active substance combinations comprising a triketone and a second herbicide](#)
- 292 [5,648,383](#) **T** [Compositions and methods of combatting fungi](#)
- 293 [5,631,254](#) **T** [Dihydropyridazinones, pyridazinones and related compounds as fungicides](#)
- 294 [5,627,188](#) **T** [Compositions and methods of combatting fungi employing triazoles and a pyrimidinamine derivative](#)
- 295 [5,599,828](#) **T** [Synergistic combination of microbicides to combat fungi on plants](#)
- 296 [5,599,769](#) **T** [Synergistic herbicidal compositions comprising glyphosate or glufosinate in combination with a sulfonylurea herbicide](#)
- 297 [5,593,942](#) **T** [Herbicidal agents based on heteroaryloxyacetamides and metribuzin](#)
- 298 [5,591,747](#) **T** [Fungicidal mixtures](#)
- 299 [5,589,479](#) **T** [Fungicidal mixtures](#)
- 300 [5,587,365](#) **T** [Fungicidal mixtures](#)

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SPEC/(synergistic and (Colby or Colbys))

| PAT. NO. | Title |
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| 301 5,585,393 | T Fungicidal compositions |
| 302 5,583,231 | T Certain 2-alkanesulfonamido-pyridine derivatives |
| 303 5,567,705 | T Microbicides |
| 304 5,554,619 | T Microbicides |
| 305 5,554,616 | T Fungicidal mixtures |
| 306 5,552,409 | T Dihydropyridazinones, pyridazinones and related compounds as fungicides |
| 307 5,538,979 | T Microbicides |
| 308 5,536,726 | T Microbicides |
| 309 5,532,262 | T Fungicidal active compound combinations |
| 310 5,532,260 | T Fungicidal mixtures |
| 311 5,519,026 | T Microbicides |
| 312 5,512,582 | T Fungicidal mixtures |
| 313 5,510,348 | T Fungicidal mixtures |
| 314 5,508,283 | T Fungicidal mixtures |
| 315 5,504,110 | T Fungicidal mixtures |
| 316 5,504,100 | T Fungicidal compositions |
| 317 5,500,446 | T Fungicidal mixtures |
| 318 5,500,441 | T Fungicidal mixtures |

- 319 [5,491,165](#) **T** [Fungicidal active compound combinations](#)
- 320 [5,484,779](#) **T** [Fungicidal compositions](#)
- 321 [5,476,868](#) **T** [Fungicidal mixtures](#)
- 322 [5,472,963](#) **T** [Fungicidal mixtures employing an oxime ether carboxamide and a morpholine derivative](#)
- 323 [5,464,839](#) **T** [Fungicidal mixtures](#)
- 324 [5,457,127](#) **T** [Fungicidal mixtures](#)
- 325 [5,457,084](#) **T** [Substituted pyridinesulfonamide compound or its salt, process for preparing the same, and herbicide containing the same](#)
- 326 [5,447,935](#) **T** [Microbicides](#)
- 327 [5,447,903](#) **T** [Herbicidal active substance combinations](#)
- 328 [5,436,248](#) **T** [Microbicides](#)
- 329 [5,434,123](#) **T** [Herbicidal composition comprising glyphosate and 1-\(4,6-dimethoxypyrimidin-2-yl\)-3-\(3-trifluoromethyl-2-pyridylsulfonyl\)urea](#)
- 330 [5,430,035](#) **T** [Microbicides](#)
- 331 [5,430,034](#) **T** [Microbicides](#)
- 332 [5,420,148](#) **T** [Fungicidal compositions](#)
- 333 [5,407,898](#) **T** [Synergistic composition and method for the selective control of weeds](#)
- 334 [5,403,844](#) **T** [Microbicides](#)
- 335 [5,399,579](#) **T** [Fungicidal compositions](#)
- 336 [5,397,795](#) **T** [Synergistic compositions containing propiconazole and tebuconazole](#)
- 337 [5,391,573](#) **T** [Fungicidal composition](#)
- 338 [5,391,539](#) **T** [Herbicidal composition comprising glufosinate and a heterocyclic sulfonylurea herbicide](#)
- 339 [5,385,881](#) **T** [Herbicidal agents](#)
- 340 [5,382,564](#) **T** [Herbicidal agents](#)
- 341 [5,382,563](#) **T** [Herbicidal agents](#)
- 342 [5,373,013](#) **T** [Microbicides](#)
- 343 [5,348,933](#) **T** [Substituted pyridinesulfonamide compound or its salt, process for preparing the same, and herbicide containing the same](#)
- 344 [5,346,909](#) **T** [Fungicidal composition](#)
- 345 [5,342,822](#) **T** [Herbicidal agents](#)
- 346 [5,317,027](#) **T** [Fungicidal compositions](#)
- 347 [5,310,722](#) **T** [Synergistic composition comprising a sulfonylurea and a thiadiazolo\[3,4-a\]py](#)
- 348 [5,296,449](#) **T** [Synergistic composition and method of selective weed control](#)
- 349 [5,286,724](#) **T** [Fungicidal composition](#)
- 350 [5,260,326](#) **T** [Fungicidal compositions](#)
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|-----|---------------------------|----------|---|
| 351 | 5,250,560 | T | Fungicidal agents |
| 352 | 5,250,557 | T | Microbicidal compositions |
| 353 | 5,250,556 | T | Microbicidal compositions |
| 354 | 5,242,920 | T | Fungicidal composition |
| 355 | 5,240,952 | T | Fungicidal agents |
| 356 | 5,240,940 | T | Quinoline and cinnoline fungicide compositions |
| 357 | 5,231,110 | T | Fungicidal composition |
| 358 | 5,231,071 | T | Herbicidal agents |
| 359 | 5,229,397 | T | Fungicidal mixture |
| 360 | 5,223,524 | T | Synergistic compositions containing propiconazole and tebuconazole |
| 361 | 5,217,525 | T | Synergistic composition and method for selective weed control in rice |
| 362 | 5,198,231 | T | Fungicidal agents |
| 363 | 5,196,044 | T | Process and composition for controlling weeds |
| 364 | 5,190,943 | T | Fungicidal mixture |
| 365 | 5,182,277 | T | Fungicides and plant-growth controlling agents |
| 366 | 5,173,104 | T | Selectively herbicidal metribuzin plus bromoxynil |
| 367 | 5,147,887 | T | Fungicidal agents |
| 368 | 5,147,445 | T | Herbicidal triazole compounds and herbicidal compositions containing the same |

- 369 [5,145,843](#) **T** [Quinoline and cinnoline fungicides](#)
- 370 [H1,103](#) **T** [Post emergence herbicidal compositions and methods for using same](#)
- 371 [5,137,903](#) **T** [Fungicidal agents](#)
- 372 [5,106,848](#) **T** [Fungicidal mixture](#)
- 373 [5,082,855](#) **T** [Fungicidal agents](#)
- 374 [5,080,709](#) **T** [Herbicidal agents containing chlorobenzoxazolyl-phenoxy propionic acid esters and either bromoxynil or ioxynil](#)
- 375 [5,071,976](#) **T** [Novel heteropolysaccharide](#)
- 376 [5,071,464](#) **T** [Herbicidal agents](#)
- 377 [5,063,241](#) **T** [Fungicidal agents](#)
- 378 [5,059,616](#) **T** [Fungicidal combinations of active compounds](#)
- 379 [5,053,070](#) **T** [Pyrimidine derivatives, preparation processes thereof, herbicide containing the same, and herbicidal compositions containing the same along with other active ingredient](#)
- 380 [5,043,338](#) **T** [Fungicide compositions](#)
- 381 [5,030,272](#) **T** [Selective herbicidal agents containing metamitron in combination with certain triazolinones](#)
- 382 [5,024,692](#) **T** [Herbicidal composition and herbicidal method](#)
- 383 [5,017,215](#) **T** [Herbicides for weed control in rice](#)
- 384 [5,013,746](#) **T** [Imazalil containing synergistic compositions](#)
- 385 [5,002,602](#) **T** [Herbicidal methods and compositions comprising fosmidomycin](#)
- 386 [4,990,527](#) **T** [Fungicidal agents](#)
- 387 [4,990,342](#) **T** [Fungicidal composition with synergistic activity](#)
- 388 [4,988,818](#) **T** [Synergistic triazole compounds](#)
- 389 [4,988,693](#) **T** [Fungicide compositions](#)
- 390 [4,986,846](#) **T** [2-\(4,6-dimethoxy-2-pyrimidinyl-oxy\)benzaldoximes, preparation processes thereof, herbicides containing the same, and herbicidal compositions containing the same along with other active ingredient](#)
- 391 [4,985,452](#) **T** [Fungicidal agents](#)
- 392 [4,983,207](#) **T** [Fungicides and plant-growth controlling agents](#)
- 393 [4,980,346](#) **T** [Synergistic fungicidal and acaricidal and compositions containing two or three active ingredients](#)
- 394 [4,975,429](#) **T** [Fungicidal compositions](#)
- 395 [4,970,223](#) **T** [Fungicidal agents](#)
- 396 [4,963,690](#) **T** [N-aminotriazole derivatives](#)
- 397 [4,959,388](#) **T** [Fungicidal composition with synergistic activity](#)
- 398 [4,957,533](#) **T** [N-phenylalkylbenzamide fungicides](#)
- 399 [4,954,495](#) **T** [Fungicides and plant-growth controlling agents](#)
- 400 [4,940,721](#) **T** [Microbicidal compositions](#)
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| 401 4,940,720 | T Microbicidal compositions |
| 402 4,937,261 | T Fungicidal composition with synergistic activity |
| 403 4,933,358 | T Fungicidal compositions |
| 404 4,933,337 | T Fungicidal agents |
| 405 4,929,273 | T N-benzyl-2-(4-fluoro-3-trifluoromethylphenoxy)butanoic amide and herbicidal composition containing the same |
| 406 4,925,842 | T Microbicides |
| 407 4,911,750 | T Synergistic compositions for inhibiting plant growth |
| 408 4,906,275 | T Composition for defoliation of plants II |
| 409 4,902,703 | T Fungicidal active compound combinations |
| 410 4,897,410 | T Fungicidal compositions |
| 411 4,897,407 | T Synergistic fungicidal composition |
| 412 4,886,825 | T Compositions for controlling plant diseases and the use thereof in plant protection |
| 413 4,886,824 | T Compositions for controlling plant diseases and the use thereof in plant protection |
| 414 4,849,440 | T Fungicidal compositions |
| 415 4,846,872 | T Herbicide |
| 416 4,845,112 | T Fungicidal agents |
| 417 4,845,111 | T Fungicidal agents |

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chloro-o-acetotoluidide and methabenzthiazuron

464 4,008,069 **T** Synergistic weed control composition

465 3,996,042 **T** Synergistic herbicidal compositions

466 3,961,935 **T** Synergistic herbicidal composition comprising O-methyl or O-ethyl-O-(3-methyl-6-nitrophenyl)-N-secondary-butylphosphorothioamidate and a phenoxy-type herbicide

467 3,933,489 **T** Electrostatic reproduction process employing novel transfer paper

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